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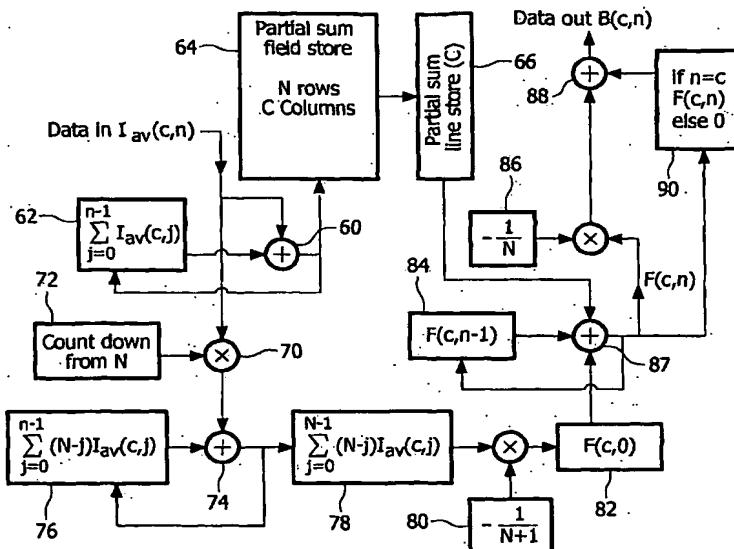
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(54) Title: DATA SIGNAL DRIVER FOR LIGHT EMITTING DISPLAY



(57) Abstract: A display has light emitting elements (2) arranged in rows and columns, with pixels in a column being supplied with current from a respective column power supply line (26). Target pixel drive currents are determined corresponding to desired pixel brightness levels based on a model of the pixel current-brightness characteristics. These are modified to take account of the voltage on the column power supply line (26) at each pixel resulting from the currents drawn from the column power supply line, and the dependency of the pixel brightness characteristics on the voltage on the column power supply line at the pixel. The invention addresses the problem of vertical cross-talk that occurs in active matrix LED displays due to the finite output impedance of the current providing TFTs as well as the finite resistance of metals used to form power supply lines.



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